

NOTICE OF VIOLATION

July 14, 2022

David Grenoble Brenntag Southeast, Inc. 2000 E. Pettigrew St. Durham, NC 27703

Location of violation: 2000 E. Pettigrew St., Durham

Dear Mr. Grenoble,

You are required to correct a violation of the City's Stormwater Management and Pollution Control Ordinance (the "Ordinance") found during a Stormwater Investigation (Reference #22WQ133) of your operation. The investigation was conducted by Christine Cailleret and Blaine Lary on 6/21/2022, as allowed by Ordinance §70-525.

You have been identified as a party responsible for the operation. According to the Ordinance, responsibility includes the ability to control what occurs on property through ownership of the property or through ownership, control, or management of a business, organization, or other entity whose activities occur on property, and also as provided in § 70-539(c). Violations of the Ordinance may be committed through deliberate action, negligence, omission, or inattention.

Violations and Corrective Actions

Below is a description of the violation, required corrective actions, and the deadlines for correction. Also listed is the proposed civil penalty. A proposed civil penalty is the amount that you will be penalized if you take no action. The proposed amount may be decreased or suspended if the corrective actions are completed as required.

Each violation is a separate offense. Each day a violation continues may be a separate offense.



Violation	Corrective Action	Deadline	Proposed Penalty
Illicit Discharge: Failure to contain the discharge of a solid, liquid, or gas, other than stormwater either directly or indirectly to the drainage system. (Durham City Code Article 5, Division 2, § 70-511(a) & (b))	See additional comments for corrective action.	See additional comments.	\$3,500.00

Comments & Requirements

The City of Durham Water Quality Unit has collected evidence documenting an unauthorized non-stormwater discharge originating from 2000 E Pettigrew St., Durham. This property is owned by Brenntag Southeast, Inc. The below description and attached map and photographs relay this evidence.

During the course of routine monitoring in Burton Park on 6/21/2022, Water Quality staff observed stream water that was black in color and had low dissolved oxygen, elevated specific conductance, and a decaying odor. This flow was traced upstream to the southwest corner of the Brenntag property, where black-colored water with low dissolved oxygen, elevated conductivity, and a strong odor was observed to be flowing from multiple outfalls draining the Brenntag premises. (See the attached maps for more detailed descriptions of the observations and the layout of the investigated outfalls.) All outfalls checked between Burton Park and Brenntag were dry, indicating no other actual source of the non-stormwater discharge.

On 6/22/2022, Water Quality staff again observed discharge with the above characteristics flowing from outfalls on the southwest corner of the Brenntag property, reaching further downstream to the tributary running through Burton Park.

Staff also inspected the drainage system upstream of Brenntag. A stormwater drop inlet on the northeast corner of the Brenntag property was observed to be dry. A stormwater drop inlet on the Northwest corner of the Brenntag property was observed to have clear flow with normal levels of dissolved oxygen and conductivity. With no irregular flow upstream of Brenntag, the evidence supports a finding that the non-stormwater discharge originates somewhere within the Brenntag premises.

The conditions of the receiving tributary downstream of Brenntag Southeast are markedly different than any other Durham stream. The stream bed has a thick black precipitate lining it. There is black floc suspended in the water column. The water itself is black in color. These conditions are not present upstream of Brenntag Southeast.

The City is requiring multiple corrective actions aimed at eliminating this illicit discharge and remediating the impacts it has had downstream.

 Due to the complex and serious nature of this illicit discharge, we require that Brenntag Southeast, Inc. schedule a meeting with Water Quality to review all evidence and requirements. Contact the lead investigator within 10 business days of receipt of this Notice to schedule (7/28/2022).

- 2. Within 10 business days of receipt of this Notice (7/28/2022), all discharge from the Brenntag Southeast outfalls must be contained, collected, and disposed of or treated offsite until such time as the source(s) of the non-stormwater discharge is identified and fully repaired.
- 3. Within 30 business days of receipt of this Notice (8/25/2022), complete an investigation and identify the cause or source(s) of the non-stormwater discharge from the Brenntag Southeast property. Send a report of investigation results to stormwaterquality@durhamnc.gov.
- 4. Within 30 business days of receipt of this Notice (8/25/2022), investigate and prepare a report documenting the extent of the downstream color, floc, and precipitate impacts described above.
- 5. Within 30 business days of receipt of this Notice (8/25/2022), perform a stream water color analysis of Third Fork Creek at Forest Hills Park. This will serve as the stream color and clarity benchmark that must be met in remediation of the tributary downstream of Brenntag Southeast.
- 6. Within 90 business days of receipt of this Notice (11/22/2022), develop a plan for remediation of the tributary downstream of Brenntag Southeast, stretching from Brenntag's outfalls through the full extent of the impact (as determined above in #4), but no farther than the confluence with Rock Creek. This remediation plan must, at a minimum, restore conditions in the water column and stream bed. This plan must have a timeline for implementation, which will be reviewed by the City. Upon review, the City may require alterations in the timeline or adopt it unchanged into a new Notice.

Potential Penalties and Remedies

City Ordinance § 70-540(2) states that first-time violators are subject to *base* penalty amounts for each violation up to: \$500 for residential use properties, \$2,000 for non-residential use, and \$10,000 for NPDES facilities. After the first offense, violators may be subject to increased penalties.

To determine the amount of a penalty, the City considers factors such as harm to the environment and property, duration, and the cost of reversing the damage. Also considered are: money saved through noncompliance, prior knowledge of requirements, prior violations, actions taken to remediate impacts, and actions taken to prevent future violations. These factors may result in an increase or decrease of the base penalty for a violation.

The City may also use the administrative remedies in § 70-540(1) as well as the judicial actions in § 70-540(3) such as injunction, abatement, or prosecution as a criminal misdemeanor. In situations where water or sewer service may contribute to a violation, utility services may be terminated.

The City will issue you an additional written Notice if citing one or more violations, or if assessing a civil penalty, terminating utility service, or using any other remedy.

In situations where there is an unreasonable delay in compliance, an emergency, or a public nuisance, the City may take actions to remediate a violation (see § 70-542.) Under those circumstances, the City may bill the violator or lien the remediation costs against the property.

Request a Meeting or Provide Information

If you'd like to meet to discuss or present evidence about your responsibility, the violation(s), corrective

action(s), civil penalties, or other remedies, you may request a meeting with Stormwater & GIS Services. Meeting requests must be made within ten business days of receipt of this Notice. Requests may be made to the Stormwater Investigator either orally or in writing delivered either by hand or by mail.

Hand-delivery:

Christine Cailleret Re: 22WQ133 Stormwater & GIS Services Durham City Hall, 3rd Floor Mail:

Christine Cailleret
Re: 22WQ133
City of Durham Dept. of Public Works
Stormwater & GIS Services
101 City Hall Plaza
Durham, NC 27701

If sent by mail or delivery service, the request should be post-marked within ten days of your receipt of this Notice. Call the Principal Investigator (see signature) to confirm that your request was received. The meeting time will be scheduled according to staff availability.

Alternatively, within ten business days of receipt of this Notice, you may provide Stormwater & GIS Services with evidence in a written format. If sent by mail or delivery service (same delivery methods as above), information must be postmarked within ten days of receiving of this Notice. Call the Principal Investigator to confirm receipt of your mailing.

Contact Stormwater & GIS Services

You are encouraged to contact staff promptly to discuss the required BMPs. Contact the lead Stormwater Investigator (see signature).

An electronic copy of the City of Durham Stormwater Management and Pollution Control Ordinance, Chapter 70 Article V, can be found online at http://goo.gl/zE7wY

For a print copy of or questions about the Ordinance, please contact a Water Quality Staff Member at (919) 560-4326.

Respectfully,

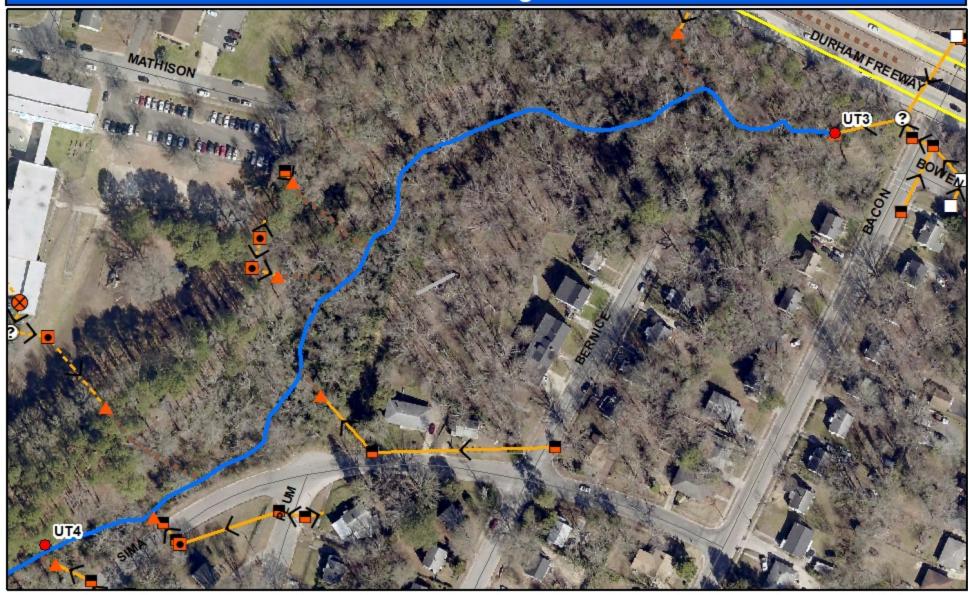
Christine Cailleret
Christine Cailleret (Jul 13, 2022 15:44 EDT)

Christine Cailleret EP&C Coordinator 919-560-4326 x30276 Christine.Cailleret@durhamnc.gov

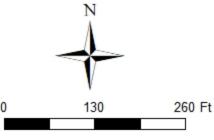
Michelle Woolfolk

Michelle Woolfolk Water Quality Manager Michelle.Woolfolk@durhamnc.gov

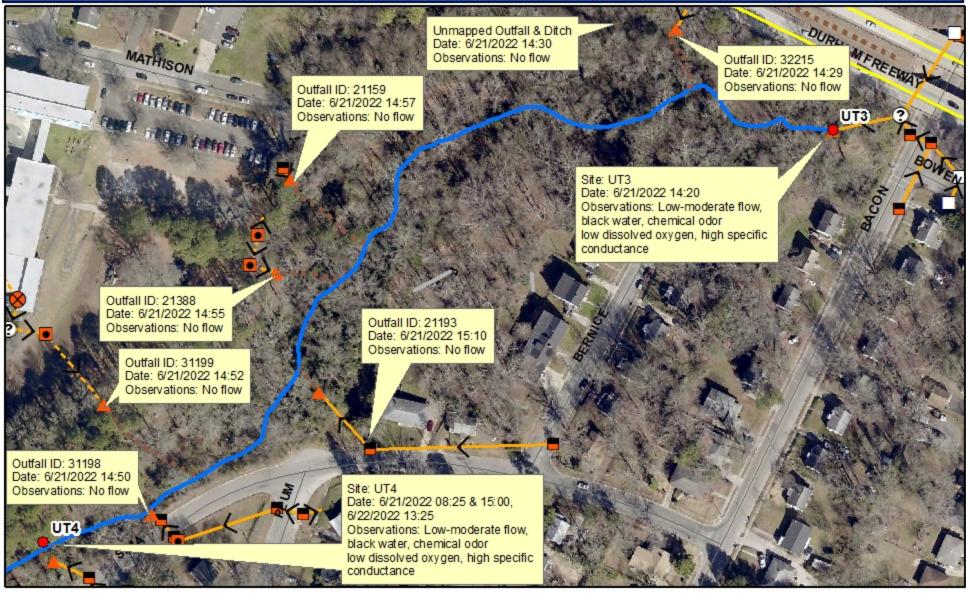
Sime Ave. Investigation Area







Sime Ave. Investigation Area





Map prepared by Stormwater & GIS Services, Department of Public Works on June 30, 2022. Information depicted is for reference purposes only and is compiled from the best available sources. The City of Durham/Durham County assumes no responsibilityfor errors arising from use or misuse of this map.

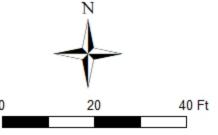


130 260 Ft

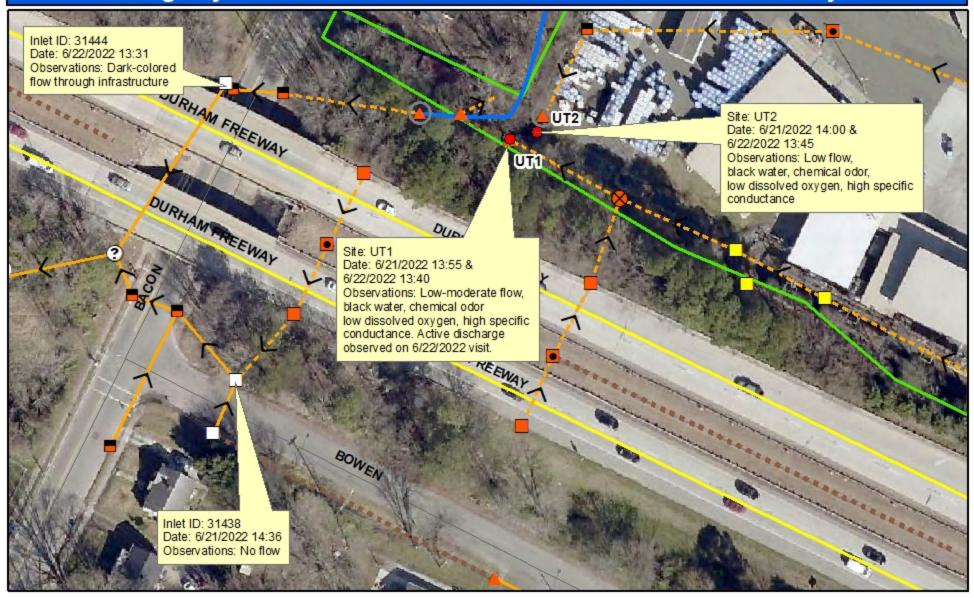
Southwest Corner of Brenntag Mid-South Property



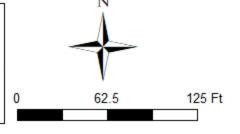




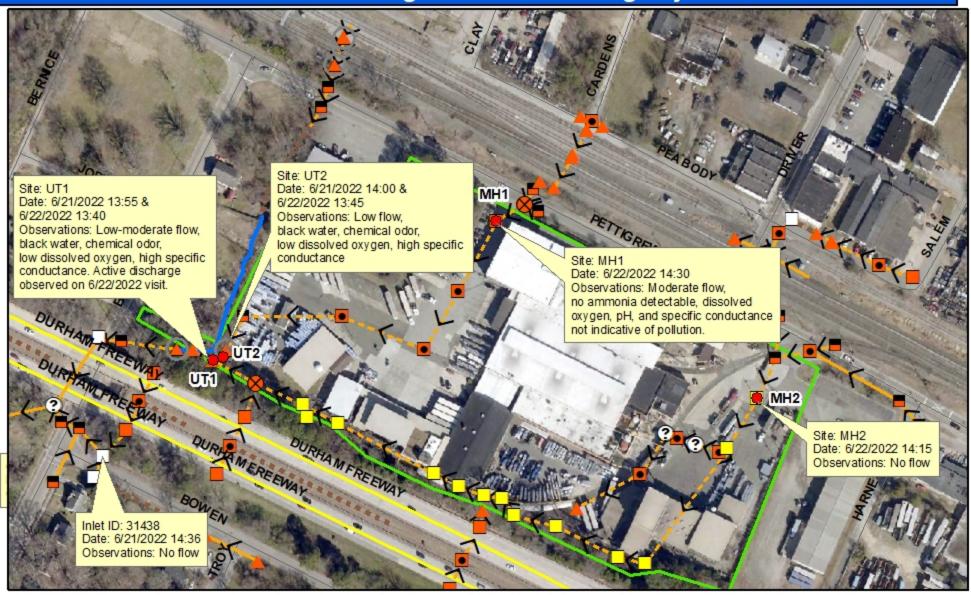
Drainage System Observations near Bacon St. & Durham Freeway 147



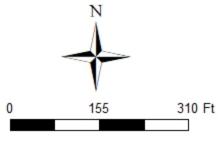




Brenntag Mid-South Drainage System



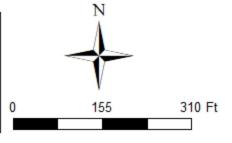




Brenntag Mid-South Drainage System







102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Thursday, June 30, 2022 City of Durham (CI020) Attn: Joseph Smith

101 City Hall Plaza, 3rd Floor

Durham, NC 27701

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: Sima Ave Ambient

ENCO Workorder(s): CF09337

Dear Joseph Smith,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, June 21, 2022.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Imanda h. Damo

Sincerely,

Amanda L. Gaines

Project Manager

Enclosure(s)



PROJECT NARRATIVE

Client: City of Durham (Cl020)
Project: Sima Ave Ambient

Lab ID: CF09337

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

The samples were brought to ENCO in containers that were not preserved according to method recommended requirements. Laboratory personnel poured off samples into containers and preserved according to the method requirements. The DOC was filtered in the lab, which is also not according to method recommended requirements. The client was informed before ENCO preoceeded with anlyses.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:

Environmental Conservation Laboratories, Inc.

Amanda Gaines Project Manager



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: UT-1		Lab ID: CF09337-01	Sampled: 06/21/22 13:55	Received: 06/21/22 16:1		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
Colilert 18	NO PREP	06/21/22 21:50 06/22/22	15:09 06/21/22 17:05	06/22/22 11:20		
EPA 300.0	NO PREP	07/19/22	06/22/22 15:38	06/22/22 20:05		
EPA 350.1	NO PREP	07/19/22	06/28/22 14:48	06/29/22 12:10		
EPA 351.2	Same	07/19/22	06/27/22 10:20	06/28/22 11:00		
EPA 353.2	NO PREP	07/19/22	06/27/22 08:50	06/27/22 14:10		
EPA 365.4	Same	07/19/22	06/27/22 10:27	06/28/22 11:53		
SM 5210 B-2011	NO PREP	06/23/22 13:55	06/23/22 09:26	06/23/22 09:26		
SM 5220D-2011	Same	07/19/22	06/23/22 10:15	06/23/22 14:05		
Client ID: UT-1		Lab ID: CF09337-01RE1	Sampled: 06/21/22 13:55	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
SM 5310B-2011	NO PREP	07/19/22	06/27/22 08:15	06/27/22 22:52		
Client ID: UT-2		Lab ID: CF09337-02	Sampled: 06/21/22 14:00	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
Colilert 18	NO PREP	06/21/22 21:55 06/22/22	15:09 06/21/22 17:05	06/22/22 11:20		
EPA 300.0	NO PREP	07/19/22	06/22/22 15:38	06/22/22 20:19		
EPA 350.1	NO PREP	07/19/22	06/28/22 14:48	06/29/22 12:12		
EPA 351.2	Same	07/19/22	06/27/22 10:20	06/28/22 11:02		
EPA 353.2	NO PREP	07/19/22	06/27/22 08:50	06/27/22 14:11		
EPA 365.4	Same	07/19/22	06/27/22 10:27	06/28/22 11:54		
SM 5210 B-2011	NO PREP	06/23/22 14:00	06/23/22 09:26	06/23/22 09:26		
SM 5220D-2011	Same	07/19/22	06/23/22 10:15	06/23/22 14:05		
Client ID: UT-2		Lab ID: CF09337-02RE1	Sampled: 06/21/22 14:00	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
SM 5310B-2011	NO PREP	07/19/22	06/27/22 08:15	06/27/22 23:14		
Client ID: UT-3		Lab ID: CF09337-03	Sampled: 06/21/22 14:20	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
EPA 300.0	NO PREP	07/19/22	06/22/22 15:38	06/22/22 20:34		
EPA 350.1	NO PREP	07/19/22	06/28/22 14:48	06/29/22 12:13		
EPA 351.2	Same	07/19/22	06/27/22 10:20	06/28/22 11:04		
EPA 353.2	NO PREP	07/19/22	06/27/22 08:50	06/27/22 14:14		
EPA 365.4	Same	07/19/22	06/27/22 10:27	06/28/22 11:56		
SM 5210 B-2011	NO PREP	06/23/22 14:20	06/23/22 09:26	06/23/22 09:26		
SM 5220D-2011	Same	07/19/22	06/23/22 10:15	06/23/22 14:05		
Client ID: UT-3		Lab ID: CF09337-03RE1	Sampled: 06/21/22 14:20	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
SM 5310B-2011	NO PREP	07/19/22	06/27/22 08:15	06/27/22 23:36		
Client ID: UT-3		Lab ID: CF09337-03RE2	Sampled: 06/21/22 14:20	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
Colilert 18	NO PREP	06/21/22 22:15 06/22/22	15:09 06/21/22 17:05	06/22/22 11:20		
Client ID: UT-4		Lab ID: CF09337-04	Sampled: 06/21/22 15:00	Received: 06/21/22 16:16		
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)		
EPA 300.0	NO PREP	07/19/22	06/22/22 15:38	06/22/22 20:48		
	NO PREP	07/19/22	06/28/22 14:48	06/29/22 12:15		
EPA 350.1			06/27/22 40.20	06/20/22 44 05		
EPA 350.1 EPA 351.2	Same	07/19/22	06/27/22 10:20	06/28/22 11:05		
	Same NO PREP	07/19/22 07/19/22	06/27/22 10:20 06/27/22 08:50	06/28/22 11:05 06/27/22 14:15		
EPA 351.2						



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: UT-4		Lab ID: CF09337-04RE1	Sampled: 06/21/22 15:00	Received: 06/21/22 16:16
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 365.4	Same	07/19/22	06/27/22 10:27	06/28/22 12:51
SM 5310B-2011	NO PREP	07/19/22	06/27/22 08:15	06/27/22 23:58
Client ID: UT-4		Lab ID: CF09337-04RE2	Sampled: 06/21/22 15:00	Received: 06/21/22 16:16
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
Colilert 18	NO PREP	06/21/22 22:55 06/22/22	15:09 06/21/22 17:05	06/22/22 11:20



SAMPLE DETECTION SUMMARY

Client ID: UT-1			Lab ID:	CF09337-01			
<u>Analyte</u>	Results	Flag	MDL	<u>PQL</u>	<u>Units</u>	Method	Notes
Ammonia as N	0.16		0.045	0.10	mg/L	EPA 350.1	
Biochemical Oxygen Demand	750		2.0	2.0	mg/L	SM 5210 B-2011	B-02
Chemical Oxygen Demand	1400		20	20	mg/L	SM 5220D-2011	
Coliform, Fecal	550		1.0	1.0	MPN/100 mL	Colilert 18	
Nitrate/Nitrite as N	0.19		0.041	0.10	mg/L	EPA 353.2	
Phosphorus - Total	0.53		0.025	0.10	mg/L	EPA 365.4	
Sulfate as SO4	17		2.9	5.0	mg/L	EPA 300.0	
Total Kjeldahl Nitrogen	24		0.26	0.48	mg/L	EPA 351.2	
Client ID: UT-1			Lab ID:	CF09337-01RE1	3,		
Analyte	<u>Results</u>	Flag	MDL	POL	<u>Units</u>	Method	Notes
Total Organic Carbon - Dissolved	330	D	18	20	mg/L	SM 5310B-2011	
Client ID: UT-2			Lab ID:	CF09337-02			
<u>Analyte</u>	<u>Results</u>	Flag	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	Notes
Biochemical Oxygen Demand	38		2.0	2.0	mg/L	SM 5210 B-2011	
Chemical Oxygen Demand	110		10	10	mg/L	SM 5220D-2011	
Coliform, Fecal	1700		1.0	1.0	MPN/100 mL	Colilert 18	
Nitrate/Nitrite as N	0.61		0.041	0.10	mg/L	EPA 353.2	
Phosphorus - Total	0.86		0.025	0.10	mg/L	EPA 365.4	
Sulfate as SO4	18		2.9	5.0	mg/L	EPA 300.0	
Total Kjeldahl Nitrogen	1.8		0.26	0.48	mg/L	EPA 351.2	
Client ID: UT-2			Lab ID:	CF09337-02RE1			
<u>Analyte</u>	<u>Results</u>	Flag	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	Notes
Fotal Organic Carbon - Dissolved	17		0.90	1.0	mg/L	SM 5310B-2011	
Client ID: UT-3			Lab ID:	CF09337-03			
<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Note</u> :
Ammonia as N	0.096	J	0.045	0.10	mg/L	EPA 350.1	
Biochemical Oxygen Demand	760		2.0	2.0	mg/L	SM 5210 B-2011	
Chemical Oxygen Demand	770		10	10	mg/L	SM 5220D-2011	
Nitrate/Nitrite as N	0.095	J	0.041	0.10	mg/L	EPA 353.2	
Phosphorus - Total	2.8		0.025	0.10	mg/L	EPA 365.4	
Sulfate as SO4	4.6	J	2.9	5.0	mg/L	EPA 300.0	
Total Kjeldahl Nitrogen	15		0.26	0.48	mg/L	EPA 351.2	
Client ID: UT-3			Lab ID:	CF09337-03RE1			
<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Note</u> :
Total Organic Carbon - Dissolved	160	D	9.0	10	mg/L	SM 5310B-2011	
Client ID: UT-3			Lab ID:	CF09337-03RE2	_		
Analyte	Results	<u>Flag</u>	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Note</u> :
Coliform, Fecal	17000		100	100	MPN/100 mL	Colilert 18	
Client ID: UT-4	Bb	FI	Lab ID:	CF09337-04	He th -	Maki	N-L
Analyte	<u>Results</u>	<u>Flag</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	<u>Notes</u>
Biochemical Oxygen Demand	410		2.0	2.0	mg/L	SM 5210 B-2011	
Chemical Oxygen Demand	610		10	10	mg/L	SM 5220D-2011	
Nitrate/Nitrite as N	0.12	_	0.041	0.10	mg/L	EPA 353.2	
Sulfate as SO4	3.2	J	2.9	5.0	mg/L	EPA 300.0	
Fotal Kjeldahl Nitrogen	7.1		0.26	0.48	mg/L	EPA 351.2	
Client ID: UT-4			Lab ID:	CF09337-04RE1			
<u>Analyte</u>	Results	<u>Flag</u>	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	Notes
Phosphorus - Total	4.1	D	0.050	0.20	mg/L	EPA 365.4	
Total Organic Carbon - Dissolved	130	D	9.0	10	mg/L	SM 5310B-2011	
Client ID: UT-4			Lab ID:	CF09337-04RE2			
<u>Analyte</u>	<u>Results</u>	Flag	MDL	<u>PQL</u>	<u>Units</u>	<u>Method</u>	Notes



Work Order: CF09337

Work Order: CF09337

ANALYTICAL RESULTS

Description: UT-1 Lab Sample ID: CF09337-01 **Received:** 06/21/22 16:16

Matrix: Surface Water Sampled: 06/21/22 13:55 **Project:** Sima Ave Ambient

Sampled By: Christine Cailleret

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Ammonia as N [7664-41-7]^	0.16		mg/L	1	0.045	0.10	2F28021	EPA 350.1	06/29/22 12:10	MSE	
Biochemical Oxygen Demand^	750		mg/L	1	2.0	2.0	2F23005	SM 5210 B-2011	06/23/22 09:26	JOC	B-02
Chemical Oxygen Demand^	1400		mg/L	2	20	20	2F23006	SM 5220D-2011	06/23/22 14:05	JOC	
Nitrate/Nitrite as N^	0.19		mg/L	1	0.041	0.10	2F27005	EPA 353.2	06/27/22 14:10	MSE	
Phosphorus [7723-14-0]^	0.53		mg/L	1	0.025	0.10	2F27015	EPA 365.4	06/28/22 11:53	MSE	
Sulfate as SO4 [14808-79-8]^	17		mg/L	1	2.9	5.0	2F22021	EPA 300.0	06/22/22 20:05	СВ	
Total Kjeldahl Nitrogen^	24		mg/L	1	0.26	0.48	2F27012	EPA 351.2	06/28/22 11:00	MSE	

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Coliform, Fecal^	550		MPN/100 mL	1		1.0	2F30026	Colilert 18	06/22/22 11:20	MJY	

Classical Chemistry Parameters (Dissolved)

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Total Organic Carbon^	330	D	ma/L	20	18	20	2F27011	SM 5310B-2011	06/27/22 22:52	KG	

Description: UT-2 Lab Sample ID: CF09337-02 **Received:** 06/21/22 16:16

Matrix: Surface Water Sampled: 06/21/22 14:00 **Project:** Sima Ave Ambient Sampled By: Christine Cailleret

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Ammonia as N [7664-41-7]^	0.045	U	mg/L	1	0.045	0.10	2F28021	EPA 350.1	06/29/22 12:12	MSE	
Biochemical Oxygen Demand^	38		mg/L	1	2.0	2.0	2F23005	SM 5210 B-2011	06/23/22 09:26	JOC	
Chemical Oxygen Demand^	110		mg/L	1	10	10	2F23006	SM 5220D-2011	06/23/22 14:05	JOC	
Nitrate/Nitrite as N^	0.61		mg/L	1	0.041	0.10	2F27005	EPA 353.2	06/27/22 14:11	MSE	
Phosphorus [7723-14-0]^	0.86		mg/L	1	0.025	0.10	2F27015	EPA 365.4	06/28/22 11:54	MSE	
Sulfate as SO4 [14808-79-8]^	18		mg/L	1	2.9	5.0	2F22021	EPA 300.0	06/22/22 20:19	CB	
Total Kjeldahl Nitrogen^	1.8		mg/L	1	0.26	0.48	2F27012	EPA 351.2	06/28/22 11:02	MSE	

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Coliform, Fecal^	1700		MPN/100 mL	1		1.0	2F30026	Colilert 18	06/22/22 11:20	MJY	

Classical Chemistry Parameters (Dissolved)

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Total Organic Carbon^	17		mg/L	1	0.90	1.0	2F27011	SM 5310B-2011	06/27/22 23:14	KG	



Work Order: CF09337

Work Order: CF09337

ANALYTICAL RESULTS

Description: UT-3 **Lab Sample ID:** CF09337-03 **Received:** 06/21/22 16:16

Matrix:Surface WaterSampled: 06/21/22 14:20Project:Sima Ave AmbientSampled By: Christine Cailleret

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	<u>PQL</u>	<u>Batch</u>	Method	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7]^	0.096	J	mg/L	1	0.045	0.10	2F28021	EPA 350.1	06/29/22 12:13	MSE	
Biochemical Oxygen Demand^	760		mg/L	1	2.0	2.0	2F23005	SM 5210 B-2011	06/23/22 09:26	JOC	
Chemical Oxygen Demand^	770		mg/L	1	10	10	2F23006	SM 5220D-2011	06/23/22 14:05	JOC	
Nitrate/Nitrite as N^	0.095	J	mg/L	1	0.041	0.10	2F27005	EPA 353.2	06/27/22 14:14	MSE	
Phosphorus [7723-14-0]^	2.8		mg/L	1	0.025	0.10	2F27015	EPA 365.4	06/28/22 11:56	MSE	
Sulfate as SO4 [14808-79-8]^	4.6	J	mg/L	1	2.9	5.0	2F22021	EPA 300.0	06/22/22 20:34	CB	
Total Kjeldahl Nitrogen^	15		mg/L	1	0.26	0.48	2F27012	EPA 351.2	06/28/22 11:04	MSE	

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number] Results **Units** <u>DF</u> <u>MDL</u> <u>PQL</u> **Method** <u>Analyzed</u> **Notes** <u>Flag</u> **Batch** <u>By</u> Coliform, Fecal^ 17000 MPN/100 mL 100 2F30026 06/22/22 11:20 100 Colilert 18 MJY

Classical Chemistry Parameters (Dissolved)

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number] MDL **Units** <u>PQL</u> Results <u>Flaq</u> DF **Batch Method** <u>Analyzed</u> Βy **Notes** Total Organic Carbon^ 160 D mg/L 10 9.0 10 2F27011 SM 5310B-2011 06/27/22 23:36 KG

Description: UT-4 **Lab Sample ID:** CF09337-04 **Received:** 06/21/22 16:16

Matrix:Surface WaterSampled: 06/21/22 15:00Project:Sima Ave AmbientSampled By: Christine Cailleret

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	DF	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Ammonia as N [7664-41-7]^	0.045	U	mg/L	1	0.045	0.10	2F28021	EPA 350.1	06/29/22 12:15	MSE	
Biochemical Oxygen Demand^	410		mg/L	1	2.0	2.0	2F23005	SM 5210 B-2011	06/23/22 09:26	JOC	
Chemical Oxygen Demand^	610		mg/L	1	10	10	2F23006	SM 5220D-2011	06/23/22 14:05	JOC	
Nitrate/Nitrite as N^	0.12		mg/L	1	0.041	0.10	2F27005	EPA 353.2	06/27/22 14:15	MSE	
Phosphorus [7723-14-0]^	4.1	D	mg/L	2	0.050	0.20	2F27015	EPA 365.4	06/28/22 12:51	MSE	
Sulfate as SO4 [14808-79-8]^	3.2	J	mg/L	1	2.9	5.0	2F22021	EPA 300.0	06/22/22 20:48	CB	
Total Kjeldahl Nitrogen^	7.1		mg/L	1	0.26	0.48	2F27012	EPA 351.2	06/28/22 11:05	MSE	

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Coliform, Fecal^	22000		MPN/100 mL	100		100	2F30026	Colilert 18	06/22/22 11:20	MJY	

Classical Chemistry Parameters (Dissolved)

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	<u>Results</u>	Flag	<u>Units</u>	DF	MDL	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>Ву</u>	<u>Notes</u>
Total Organic Carbon^	130	D	mg/L	10	9.0	10	2F27011	SM 5310B-2011	06/27/22 23:58	KG	



Batch 2F22021 - NO PREP											
Blank (2F22021-BLK1)					Prepare	ed: 06/22/202	2 15:38 Anal	yzed: 06/22/	2022 17:11		
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Not</u>
Sulfate as SO4	2.9	U	5.0	mg/L							
LCS (2F22021-BS1)					Prepare	ed: 06/22/202	2 15:38 Anal	yzed: 06/23/	2022 10:37		
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Not
Sulfate as SO4	49		5.0	mg/L	50.0	Kesuit	98	90-110	2	<u></u>	
Matrix Spike (2F22021-MS1)				9/ –		ed: 06/22/202			2022 17:55		
Source: CF01145-01											
Analyte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD <u>Limit</u>	No
ulfate as SO4	32	riug	5.0	mg/L	20.0	<u>Result</u> 9.8	109	90-110	KFD	Lillie	110
Matrix Spike (2F22021-MS2)	32		5.0	1119/ =		ed: 06/22/202			2022 18:38		
Source: CF01145-02					•			, , ,			
A	Doroth	FI	DOL	11	Spike	Source		%REC		RPD	
Analyte	Result	<u>Flaq</u>	POL 5.0	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
iulfate as SO4 Matrix Spike Dup (2F22021-MSD	61		5.0	mg/L	20.0	39 ed: 06/22/202	110	90-110	2022 19:00		
Source: CF01145-01	,,				Ріеран	eu. 06/22/202	2 15.36 Allai	yzeu. 06/22/	2022 16.09		
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	<u>Flaq</u>	POL	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
Sulfate as SO4 Batch 2F23005 - NO PREP	32		5.0	mg/L	20.0	9.8	109	90-110	0.3	10	
Blank (2F23005-BLK1)					Prenare	ed & Analyzed	. 06/23/2022	09.26			
Bidiik (21 25005 BERT)					Trepuit	ca & Analyzea	. 00/23/2022	. 05.20			
Analyte	Result	Flag	POL	Units	Spike	Source	0/ DEC	%REC	nnn.	RPD	Na
Biochemical Oxygen Demand	2.0	U	2.0	mg/L	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Not
LCS (2F23005-BS1)	2.0	0	2.0	IIIg/L	Prepare	ed & Analyzed	: 06/23/2022	2 09:26			
					•	,					
Australo	Dogula	Flor	DOL	llmit.	Spike	Source	0/ 550	%REC		RPD	
Analyte iochemical Oxygen Demand	Result 200	<u>Flaq</u>	PQL 2.0	<u>Units</u> mg/L	Level 198	<u>Result</u>	%REC 101	<u>Limits</u> 85-115	RPD	<u>Limit</u>	No
Duplicate (2F23005-DUP1)	200		2.0	IIIg/L		ed & Analyzed					
Source: CF06134-01					Перин	ca & Analyzea	. 00/23/2022	. 05.20			
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
liochemical Oxygen Demand	5.0		2.0	mg/L		4.9			2	30	
Batch 2F23006 - Same											
Blank (2F23006-BLK1)					Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/	2022 14:05		
					Spike	Source		%REC		RPD	
Analyte	Result 10	Flag U	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
Chemical Oxygen Demand			10	mg/L							



Batch 2F23006 - Same - Co	ntinued										
LCS (2F23006-BS1)					Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/2	2022 14:05		
Analyte	Result	Flag	<u>POL</u>	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD Limit	Not
Chemical Oxygen Demand	500		10	mg/L	500	Result	100	90-110	KI D	Lillie	1100
Matrix Spike (2F23006-MS1)				<i>J.</i>	Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/2	2022 14:05		
Source: CF01145-01											
<u> Analyte</u>	Result	Flag	POL	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Not
hemical Oxygen Demand	530		10	mg/L	526	10 U	102	90-110			
Matrix Spike Dup (2F23006-M	ISD1)				Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/2	2022 14:05		
Source: CF01145-01											
Analyte	Result	Flag	PQL	Units	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Not
nemical Oxygen Demand	540	iluq	10	mg/L	526	<u>Result</u> 10 U	102	90-110	0.8	5	1100
Batch 2F27005 - NO PREP	310		10	1119/ =	320	10 0	102	30 110	0.0	3	
Blank (2F27005-BLK1)					Prenare	ed: 06/27/202	2 08:50 Anal	vzed: 06/27/2	2022 12:14		
J (21 27 000 DE112)					opa	00. 00/2//202	_ 00.007a.	,200. 00,27,			
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	<u>Flag</u>	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Not</u>
litrate/Nitrite as N	0.041	U	0.10	mg/L		1 06/27/202	200 50 4	1.06/27/	2022 42 25		
LCS (2F27005-BS1)					Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/2//.	2022 13:35		
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Not
itrate/Nitrite as N	1.2		0.10	mg/L	1.25		98	90-110			
Matrix Spike (2F27005-MS1)					Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/2	2022 13:39		
Source: CF06148-01						_		0/ 850			
Analyte	Result	Flag	PQL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Not
itrate/Nitrite as N	0.87		0.10	mg/L	0.521	0.30	109	90-110			
Matrix Spike (2F27005-MS2)					Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/2	2022 13:44		
Source: CF06148-02											
<u>Analyte</u>	<u>Result</u>	Flag	PQL	<u>Units</u>	Spike	Source	0/ DEC	%REC	DDD	RPD	Nat
itrate/Nitrite as N	8.3	D D	0.50	mg/L	Level 2.60	Result 5.5	%REC 107	<u>Limits</u> 90-110	RPD	<u>Limit</u>	Not
Matrix Spike Dup (2F27005-M			0.50	9/ =		ed: 06/27/202			2022 13:41		
Source: CF06148-01	,					, , .		,, ,			
					Spike	Source		%REC		RPD	
<u>unalyte</u>	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Not
itrate/Nitrite as N	0.88		0.10	mg/L	0.521	0.30	111	90-110	1	10	QM-
Batch 2F27012 - Same											
Blank (2F27012-BLK1)					Prepare	ed: 06/27/202	2 10:20 Anal	yzed: 06/28/2	2022 10:19		
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Not</u>
			0.48								



L			QUAI	LITT CON	I KOL DAI	A					
Classical Chemistry Parameters -	Quality Con	trol									
Batch 2F27012 - Same - Cont	tinued										
LCS (2F27012-BS1)					Prepare	ed: 06/27/202	2 10:20 Anal	yzed: 06/28/	2022 10:21		
					Spike	Source		%REC		RPD	
Analyte Fotal Kjeldahl Nitrogen	Result 11	Flag	<u>PQL</u> 0.48	<u>Units</u>	Level 12.0	<u>Result</u>	%REC 95	<u>Limits</u> 90-110	RPD	<u>Limit</u>	Notes
Matrix Spike (2F27012-MS1)	11		0.40	mg/L		ed: 06/27/202			2022 10:24		
					гтеран	eu. 00/2//202	2 10.20 Anai	yzeu. 00/28/	2022 10.24		
Source: CF04750-01					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	<u>Flaq</u>	PQL	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
otal Kjeldahl Nitrogen	5.1		0.48	mg/L	4.80	0.82	88	90-110			QM-0
Matrix Spike (2F27012-MS2)					Prepare	ed: 06/27/202	2 10:20 Anal	lyzed: 06/28/	2022 10:29		
Source: CF06193-01											
Analyte	Result	Flag	PQL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Total Kjeldahl Nitrogen	77	Е	0.48	mg/L	4.80	77	NR	90-110			QM-07
Matrix Spike Dup (2F27012-MSI	D1)				Prepare	ed: 06/27/202	2 10:20 Anal	lyzed: 06/28/	2022 10:26		
Source: CF04750-01								-			
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	<u>Flag</u>	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Total Kjeldahl Nitrogen	5.6		0.48	mg/L	4.80	0.82	99	90-110	10	10	
Batch 2F27015 - Same											
Blank (2F27015-BLK1)					Prepare	ed: 06/27/202	2 10:27 Anal	yzed: 06/28/	2022 11:33		
					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Phosphorus	0.025	U	0.10	mg/L							
LCS (2F27015-BS1)					Prepare	ed: 06/27/202	2 10:27 Anal	yzed: 06/28/	2022 11:34		
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Phosphorus	1.6		0.10	mg/L	1.60		103	80-120			
Matrix Spike (2F27015-MS1)					Prepare	ed: 06/27/202	2 10:27 Anal	yzed: 06/28/	2022 11:37		
Source: CF04750-01					C!!	6		0/ BEC		DDD	
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Phosphorus	0.65		0.10	mg/L	0.640	0.025 U	102	80-120			
Matrix Spike Dup (2F27015-MSI	D1)				Prepare	ed: 06/27/202	2 10:27 Anal	yzed: 06/28/	2022 11:38		
Source: CF04750-01											
A	D lt	FI	DOL	11	Spike	Source		%REC		RPD	
Analyte Phosphorus	Result 0.66	<u>Flaq</u>	POL 0.10	<u>Units</u>	Level 0.640	<u>Result</u> 0.025 U	%REC 103	<u>Limits</u> 80-120	RPD 1	<u>Limit</u> 25	Notes
Batch 2F28021 - NO PREP	0.00		0.10	mg/L	U.0 1 U	U.UZ3 U	103	00-120	1	23	
Blank (2F28021-BLK1)					Dronar	ed: 06/28/202	2 14·48 Anal	vzed: 06/20/	2022 11.32		
Sidilk (21 20021-BLR1)					гісран	ca. 00/20/202	∠ 17.70 Aildi	yzcu. 00/29/	2022 II.JZ		
Analyte	Result	Flag	PQL	Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit	Notos
Allaryte	Result	ridq	PUL	Units	Level	<u>Result</u>	70KEC	<u>Limits</u>	KPU	<u>Limit</u>	Notes

Ammonia as N

mg/L

0.045

U

0.10



Datch 21 20021 NO FREF	Continued										
LCS (2F28021-BS1)					Prepare	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:34		
					Eniko	Fource		%REC		RPD	
nalyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	<u>Limits</u>	RPD	Limit	Notes
mmonia as N	0.97		0.10	mg/L	1.01	· <u> </u>	96	90-110			
Matrix Spike (2F28021-MS1)					Prepare	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:37		
Source: CF08096-01											
<u>nalyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
mmonia as N	13	D	1.0	mg/L	3.93	9.2	106	90-110			
Matrix Spike (2F28021-MS2)					Prepare	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:46		
Source: CF08096-02											
nalyte	Result	Flag	PQL	Units	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD Limit	Notes
nmonia as N	25	DE	1.0	mg/L	3.93	<u>Result</u> 22	80	90-110	KFD	Lillie	QM-07
Matrix Spike Dup (2F28021-MSI		<i>D</i> L	1.0	9/ =		ed: 06/28/202			2022 11:39		Qi i o
Source: CF08096-01	,				Пора	00, 00, 20, 202		,200. 00,25,			
Source: el 60030 01					Spike	Source		%REC		RPD	
<u>nalyte</u>	Result	Flag	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Note</u> :
nmonia as N	13	D	1.0	mg/L	3.93	9.2	106	90-110	0.2	10	
					opa	ed: 06/21/202		,, ,			
	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Note:
oliform, Fecal	Result	Flag U	PQL 1.0	Units MPN/100 mL	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD		<u>Notes</u>
Duplicate (2F30026-DUP1)					Spike Level	Source	%REC	%REC <u>Limits</u>	RPD		<u>Note</u>
oliform, Fecal					Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD		Notes
Duplicate (2F30026-DUP1) Source: CF09337-02	1.0		1.0	MPN/100 mL Units	Spike Level Prepare	Source Result ed: 06/21/202 Source Result	%REC	%REC <u>Limits</u> yzed: 06/22/	RPD 2022 11:20 RPD	Limit RPD Limit	Notes
Duplicate (2F30026-DUP1) Source: CF09337-02 nalyte Difform, Fecal	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL	Spike Level Prepare Spike	Source Result ed: 06/21/202	%REC 2 17:05 Anal	%REC <u>Limits</u> yzed: 06/22/: %REC	RPD 2022 11:20	<u>Limit</u>	<u>Note:</u>
Duplicate (2F30026-DUP1) Source: CF09337-02 nalyte bliform, Fecal assical Chemistry Parameters (1	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike	Source Result ed: 06/21/202 Source Result	%REC 2 17:05 Anal	%REC <u>Limits</u> yzed: 06/22/: %REC	RPD 2022 11:20 RPD	Limit RPD Limit	Notes Notes QM-12
Duplicate (2F30026-DUP1) Source: CF09337-02 malyte Oliform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike Level	Source Result ed: 06/21/202 Source Result 1700	%REC 2 17:05 Anal	%REC <u>Limits</u> yzed: 06/22/ %REC <u>Limits</u>	RPD 2022 11:20 RPD 33	Limit RPD Limit	Notes
Duplicate (2F30026-DUP1) Source: CF09337-02 Inalyte Diform, Fecal assical Chemistry Parameters (I	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike Level	Source Result ed: 06/21/202 Source Result	%REC 2 17:05 Anal	%REC <u>Limits</u> yzed: 06/22/ %REC <u>Limits</u>	RPD 2022 11:20 RPD 33	Limit RPD Limit	Notes
Duplicate (2F30026-DUP1) Source: CF09337-02 malyte Oliform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike Level	Source Result ed: 06/21/202 Source Result 1700	%REC 2 17:05 Anal	%REC <u>Limits</u> yzed: 06/22/ %REC <u>Limits</u>	RPD 2022 11:20 RPD 33	Limit RPD Limit	Notes
Duplicate (2F30026-DUP1) Source: CF09337-02 malyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1)	1.0 Result >2419.6	U Flag	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike Level	Source Result ed: 06/21/202 Source Result 1700	%REC 2 17:05 Anal	%REC Limits yzed: 06/22/ %REC Limits	RPD 2022 11:20 RPD 33	RPD Limit 25	Notes
Duplicate (2F30026-DUP1) Source: CF09337-02 nalyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) nalyte btal Organic Carbon	1.0 Result >2419.6 Dissolved) -	U Flag Quality	1.0 POL 1.0 Control	Units MPN/100 mL	Spike Level Prepare Spike Level Prepare Spike Level	Source Result Source Result 1700 Source Result 1700 Source Result	%REC 2 17:05 Anal %REC 2 08:15 Anal	%REC Limits yzed: 06/22/ %REC Limits yzed: 06/27/ %REC Limits	RPD 2022 11:20 RPD 33 2022 19:25 RPD	RPD Limit 25	Notes QM-1
Duplicate (2F30026-DUP1) Source: CF09337-02 nalyte Oliform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1)	Result >2419.6 Dissolved) -	Flag Quality Flag	POL 1.0	Units MPN/100 mL Units Units	Spike Level Prepare Spike Level Prepare Spike Level	Source Result ed: 06/21/202 Source Result 1700 ed: 06/27/202 Source	%REC 2 17:05 Anal %REC 2 08:15 Anal	%REC Limits yzed: 06/22/ %REC Limits yzed: 06/27/ %REC Limits	RPD 2022 11:20 RPD 33 2022 19:25 RPD	RPD Limit 25	Note: QM-1
Duplicate (2F30026-DUP1) Source: CF09337-02 malyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) malyte Dital Organic Carbon LCS (2F27011-BS1)	Result >2419.6 Dissolved) - Result 0.90	Flag Quality Flag U	1.0 POL 1.0 Control POL 1.0	Units MPN/100 mL Units MPN/100 mL	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike	Source Result Source Result 1700 Source Result 1700 Source Result	%REC 2 17:05 Anal %REC 2 08:15 Anal	%REC Limits yzed: 06/22/ %REC Limits yzed: 06/27/ %REC Limits yzed: 06/27/	RPD 2022 11:20 RPD 33 2022 19:25 RPD 2022 20:26	RPD Limit 25	Notes QM-1
Source: CF09337-02 analyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) analyte btal Organic Carbon LCS (2F27011-BS1)	Result >2419.6 Dissolved) - Result 0.90	Flag Quality Flag	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level	Source Result Source Result 1700 Source Result 1700 Source Result 1700	%REC 2 17:05 Anal %REC 2 08:15 Anal %REC 2 08:15 Anal	%REC Limits yzed: 06/22/. %REC Limits yzed: 06/27/. %REC Limits yzed: 06/27/. %REC Limits	RPD 2022 11:20 RPD 33 2022 19:25 RPD	RPD Limit 25	Note: QM-1
Duplicate (2F30026-DUP1) Source: CF09337-02 Inalyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) Inalyte Dital Organic Carbon LCS (2F27011-BS1) Inalyte Dital Organic Carbon	Result >2419.6 Dissolved) - Result 0.90	Flag Quality Flag U	1.0 POL 1.0 Control POL 1.0	Units MPN/100 mL Units MPN/100 mL	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result Source Result 1700 Source Result 1700 Source Result Source Result Source Result Source Result	%REC 2 17:05 Anal %REC 2 08:15 Anal %REC 90	%REC Limits yzed: 06/22/3 %REC Limits yzed: 06/27/3 %REC Limits yzed: 06/27/3 %REC Limits 85-115	RPD 2022 11:20 RPD 33 2022 19:25 RPD 2022 20:26 RPD	RPD Limit 25	Note:
Duplicate (2F30026-DUP1) Source: CF09337-02 Inalyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) Inalyte Dital Organic Carbon LCS (2F27011-BS1) Inalyte Dital Organic Carbon Matrix Spike (2F27011-MS1)	Result >2419.6 Dissolved) - Result 0.90	Flag Quality Flag U	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result Source Result 1700 Source Result 1700 Source Result 200 Source Result Source Result Source Result	%REC 2 17:05 Anal %REC 2 08:15 Anal %REC 90	%REC Limits yzed: 06/22/3 %REC Limits yzed: 06/27/3 %REC Limits yzed: 06/27/3 %REC Limits 85-115	RPD 2022 11:20 RPD 33 2022 19:25 RPD 2022 20:26 RPD	RPD Limit 25	Note:
Duplicate (2F30026-DUP1) Source: CF09337-02 Inalyte Difform, Fecal assical Chemistry Parameters (I Batch 2F27011 - NO PREP Blank (2F27011-BLK1) Inalyte Dital Organic Carbon LCS (2F27011-BS1) Inalyte Dital Organic Carbon	Result >2419.6 Dissolved) - Result 0.90	Flag Quality Flag U	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result Source Result 1700 Source Result 1700 Source Result Source Result Source Result Source Result	%REC 2 17:05 Anal %REC 2 08:15 Anal %REC 90	%REC Limits yzed: 06/22/3 %REC Limits yzed: 06/27/3 %REC Limits yzed: 06/27/3 %REC Limits 85-115	RPD 2022 11:20 RPD 33 2022 19:25 RPD 2022 20:26 RPD	RPD Limit 25	Note:



Classical Chemistry Parameters (Dissolved) - Quality Control

Batch 2F27011 - NO PREP - Continued

Matrix Spike (2F27011-MS1) Continued Prepared: 06/27/2022 08:15 Analyzed: 06/28/2022 00:41 Source: CF09337-02 Spike %REC RPD Source <u>PQL</u> **Analyte** Result Flag <u>Units</u> %REC RPD <u>Limit</u> Level Result <u>Limits</u> <u>Notes</u> Total Organic Carbon 1.0 62 50.0 17 91 85-115 mg/L Matrix Spike Dup (2F27011-MSD1) Prepared: 06/27/2022 08:15 Analyzed: 06/28/2022 01:05 Source: CF09337-02

<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	Limit	<u>Notes</u>
Total Organic Carbon	62		1.0	mg/L	50.0	17	89	85-115	1	15	



FLAGS/NOTES AND DEFINITIONS

- **B** The analyte was detected in the associated method blank.
- **D** The sample was analyzed at dilution.
- The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- **U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- **E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- **POL** POL: Practical Quantitation Limit. The POL presented is the laboratory MRL.
- **N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- **P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC] Calculated analyte MDL/MRL reported to the highest reporting limit of the component analyses.
- **B-02** The sample dilutions set up for the analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/l. Therefore the reported result is an estimated value only.
- **QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- **QM-12** Precision between duplicate samples was outside acceptance limits.



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069

(904) 296-3007 Fax (904) 296-6210

02-A Woodwinds Industrial Ct.

www.encolabs.com

Page / of

Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Note: Rush requests subject to acceptance by the facility Requested Turnaround Expedited Sample Comments Standard Times ab Workorder Due Preservation (See Codes) (Combine as necessary) <-- Total # of Containers, 8-008 Total # of 35 35 NS Comp / Grab Site Location / Time Zone Project Name/Desc Reporting Contact PO # / Billing Info 6/21/22 * 1500 Billing Contact 6/21/22 \$ 1355 6/21/22 * HOD Collection Collection Date Date/Time Dulham WC 27701 Cailleret 101 City Hall Plaza Sample ID (Field Identification) Joey Smith 119-560-4326 Christine 3 ample Kit Prepared By Item #

: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater_A-Air O-Other (detail in comments)

Sooler #'s & Temps on Receipt

Relinquished By

Times from de voluite

Page 14 of 15

Preservation: I-Ice H-HCI N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments) Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Ret Ntr G 847500150

Unacceptable

Acceptable

Date/Time

Received By

Date/Time

Sample Preservation Verification

ENCO Cary



Work Order:

CF09337

Client: C

City of Durham (CI020)

Logged In:

21-Jun-22 16:29

Preservation Check Performed By:

Project:

Sima Ave Ambient

Project #:

[none]

Logged By:

Samantha L Hyatt

Date/Time: (

1645

CF09337-01

Cont	Туре	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
E	250mLP+H2SO4	<2	(Y) N / NA	Y / (N)/ NA		

CF09337-02

Cont	Туре	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
Е	250mLP+H2SO4	<2	Y)/ N / NA	Y/N) NA		

CF09337-03

Cont	Type ·	Pres (pH) Requirement	pH _k	Checked / Control	pH Ad	usted	Date/Time Adjusted	Reagent Used/Comments
E	250mLP+H2SO4	<2	Y	N / NA	Y / (N) NA		

CF09337-04

Cont	Туре	Pres (pH) Requirement	PH Y	Checked / Control	pH Adj	usted	Date/Time Adjusted	Reagent Used/Comments
D	250mLP+H2SO4	<2	Y	N / NA	Y/N) NA		•

Reagent	vame	עו

-

Reage	ent Name	ID
5		
6		

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Tuesday, July 5, 2022 City of Durham (CI020) Attn: Joseph Smith 101 City Hall Plaza, 3rd Floor

Durham, NC 27701

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: Sima Ave Ambient

ENCO Workorder(s): CF09452

Dear Joseph Smith,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, June 22, 2022.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Imanda h. Damo

Sincerely,

Amanda L. Gaines

Project Manager

Enclosure(s)



PROJECT NARRATIVE

Date: July 05, 2022

Client: City of Durham (Cl020)
Project: Sima Ave Ambient

Lab ID: CF09452

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

The samples were brought to ENCO in containers that were not preserved according to method recommended requirements. Laboratory personnel poured off samples into containers and preserved according to the method requirements. The DOC was filtered in the lab, which is also not according to method recommended requirements. The client was informed before ENCO preoceeded with anlyses.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:

Environmental Conservation Laboratories, Inc.

Amanda Gaines Project Manager



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MH-1		Lab ID: CF09452-01	Sampled: 06/22/22 14:30	Received: 06/22/22 15:43
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
Colilert 18	NO PREP	06/22/22 22:25 06/23/22	14:47 06/22/22 16:43	06/23/22 11:24
EPA 300.0	NO PREP	07/20/22	06/24/22 09:55	06/24/22 15:07
EPA 350.1	NO PREP	07/20/22	06/28/22 14:48	06/29/22 12:20
EPA 351.2	Same	07/20/22	06/29/22 10:26	06/30/22 11:38
EPA 353.2	NO PREP	07/20/22	06/27/22 08:50	06/27/22 14:17
EPA 365.4	Same	07/20/22	06/29/22 10:33	06/30/22 12:37
SM 5210 B-2011	NO PREP	06/24/22 14:30	06/23/22 09:26	06/23/22 09:26
SM 5220D-2011	Same	07/20/22	06/23/22 10:15	06/23/22 14:05
Client ID: MH-1		Lab ID: CF09452-01RE1	Sampled: 06/22/22 14:30	Received: 06/22/22 15:43
<u>Parameter</u>	<u>Preparation</u>	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM 5310B-2011	NO PREP	07/20/22	06/27/22 08:10	06/27/22 16:14

FINAL



SAMPLE DETECTION SUMMARY

Client ID: MH-1			Lab ID:	CF09452-01			
<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Notes</u>
Biochemical Oxygen Demand	2.5		2.0	2.0	mg/L	SM 5210 B-2011	
Coliform, Fecal	130		1.0	1.0	MPN/100 mL	Colilert 18	
Nitrate/Nitrite as N	0.60		0.041	0.10	mg/L	EPA 353.2	
Phosphorus - Total	0.032	J	0.025	0.10	mg/L	EPA 365.4	
Sulfate as SO4	11		2.9	5.0	mg/L	EPA 300.0	
Client ID: MH-1			Lab ID:	CF09452-01RE1			
<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Notes</u>
Total Organic Carbon - Dissolved	3.9		0.90	1.0	mg/L	SM 5310B-2011	



Work Order: CF09452

ANALYTICAL RESULTS

Description: MH-1 Lab Sample ID: CF09452-01 **Received:** 06/22/22 15:43

Matrix: Surface Water Sampled: 06/22/22 14:30 **Project:** Sima Ave Ambient

Sampled By: Christine Cailleret

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7]^	0.045	U	mg/L	1	0.045	0.10	2F28021	EPA 350.1	06/29/22 12:20	MSE	
Biochemical Oxygen Demand^	2.5		mg/L	1	2.0	2.0	2F23005	SM 5210 B-2011	06/23/22 09:26	JOC	
Chemical Oxygen Demand^	10	U	mg/L	1	10	10	2F23006	SM 5220D-2011	06/23/22 14:05	JOC	
Nitrate/Nitrite as N^	0.60		mg/L	1	0.041	0.10	2F27005	EPA 353.2	06/27/22 14:17	MSE	
Phosphorus [7723-14-0]^	0.032	J	mg/L	1	0.025	0.10	2F29016	EPA 365.4	06/30/22 12:37	MSE	
Sulfate as SO4 [14808-79-8]^	11		mg/L	1	2.9	5.0	2F24013	EPA 300.0	06/24/22 15:07	CB	
Total Kjeldahl Nitrogen^	0.26	U	mg/L	1	0.26	0.48	2F29014	EPA 351.2	06/30/22 11:38	MSE	

Microbiological Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	By	<u>Notes</u>
Coliform, Fecal^	130		MPN/100 mL	1		1.0	2F27024	Colilert 18	06/23/22 11:24	MJY	

Classical Chemistry Parameters (Dissolved)

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	<u>Flag</u>	<u>Units</u>	<u>DF</u>	MDL	<u>PQL</u>	Batch	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Total Organic Carbon^	3.9		mg/L	1	0.90	1.0	2F27008	SM 5310B-2011	06/27/22 16:14	KG	

FINAL



Classical Chemistry Parameters -	Quality Con	trol									
Batch 2F23005 - NO PREP											
Blank (2F23005-BLK1)					Prepare	ed & Analyzed	: 06/23/2022	2 09:26			
Analyte	<u>Result</u>	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	<u>Notes</u>
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							
LCS (2F23005-BS1)					Prepare	ed & Analyzed	: 06/23/2022	2 09:26			
Australia	Danish	FI	po.	1124	Spike	Source		%REC		RPD	
Analyte Piochomical Owagan Domand	Result 200	<u>Flaq</u>	<u>POL</u> 2.0	<u>Units</u>	Level 198	<u>Result</u>	%REC 101	<u>Limits</u> 85-115	RPD	<u>Limit</u>	Notes
Biochemical Oxygen Demand Duplicate (2F23005-DUP1)	200		2.0	mg/L		ed & Analyzed					
					гтерате	eu & Arialyzeu	. 00/23/2022	2 09.20			
Source: CF06134-01 Analyte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Biochemical Oxygen Demand	5.0	i iaq	2.0	mg/L	Level	<u>Result</u> 4.9	70REC	LIIIILS	2	30	ivotes
Batch 2F23006 - Same	5.0		2.0	mg/L		1.5			2	30	
Blank (2F23006-BLK1)					Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/	2022 14:05		
<u>Analyte</u>	Result	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Chemical Oxygen Demand	10	U	10	mg/L							
LCS (2F23006-BS1)					Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/	2022 14:05		
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Chemical Oxygen Demand	500		10	mg/L	500		100	90-110			
Matrix Spike (2F23006-MS1)					Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/	2022 14:05		
Source: CF01145-01					o ::			0/ DEC			
Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Chemical Oxygen Demand	530		10	mg/L	526	10 U	102	90-110			
Matrix Spike Dup (2F23006-MS	D1)				Prepare	ed: 06/23/202	2 10:15 Anal	yzed: 06/23/	2022 14:05		
Source: CF01145-01											
Analyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Chemical Oxygen Demand	540		10	mg/L	526	10 U	102	90-110	0.8	5	
Batch 2F24013 - NO PREP											
Blank (2F24013-BLK1)					Prepare	ed: 06/24/202	2 09:55 Anal	lyzed: 06/24/	2022 11:59		
					Spike	Source		%REC		RPD	
Analyte	<u>Result</u>	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Sulfate as SO4	2.9	U	5.0	mg/L							
LCS (2F24013-BS1)					Prepare	ed: 06/24/202	2 09:55 Anal	yzed: 06/24/	2022 12:13		
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		97	90-110			



Classical Chemistry Parameters -	Quality Con	trol									
Batch 2F24013 - NO PREP - 0	Continued										
Matrix Spike (2F24013-MS1)					Prepare	ed: 06/24/202	2 09:55 Anal	yzed: 06/24/	2022 12:42		
Source: CF08097-01											
Analyte	Result	Flag	POL	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Sulfate as SO4	21		5.0	mg/L	20.0	4.9	79	90-110	KI D	Linit	QM-0
Matrix Spike (2F24013-MS2)					Prepare	ed: 06/24/202	2 09:55 Anal	yzed: 06/24/	2022 13:26		
Source: CF08097-02											
<u>Analyte</u>	Result	Flag	POL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Sulfate as SO4	19		5.0	mg/L	20.0	2.9 U	95	90-110			
Matrix Spike Dup (2F24013-MS						ed: 06/24/202	2 09:55 Anal		2022 12:57		
Source: CF08097-01											
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Sulfate as SO4	21	- 1	5.0	mg/L	20.0	4.9	79	90-110	0.2	10	QM-07
Batch 2F27005 - NO PREP			5.0	9/ =	20.0	5	,,,	50 110	0.2		Q
Blank (2F27005-BLK1)					Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/	2022 12:14		
Analyte	Result	Flag	POL	<u>Units</u>	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notor
Nitrate/Nitrite as N	0.041	U	0.10	mg/L	Level	Result	70REC	LIIIICS	RPD	LIIIIL	Notes
LCS (2F27005-BS1)	0.011	Ü	0.10	1119/ =	Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/	2022 13:35		
					•						
Analyte	Result	Flag	POL	Units	Spike	Source	0/ DEC	%REC	DDD	RPD	Notes
Nitrate/Nitrite as N	1.2	riay	0.10	mg/L	Level 1.25	<u>Result</u>	%REC 98	<u>Limits</u> 90-110	RPD	<u>Limit</u>	Notes
Matrix Spike (2F27005-MS1)	1.2		0.10	IIIg/L		ed: 06/27/202			2022 13:39		
Source: CF06148-01								,,			
304.00. 0. 002.0 02					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Nitrate/Nitrite as N	0.87		0.10	mg/L	0.521	0.30	109	90-110			
Matrix Spike (2F27005-MS2)					Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/	2022 13:44		
Source: CF06148-02					Spike	Source		%REC		RPD	
Analyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Nitrate/Nitrite as N	8.3	D	0.50	mg/L	2.60	5.5	107	90-110			
Matrix Spike Dup (2F27005-MS	D1)				Prepare	ed: 06/27/202	2 08:50 Anal	yzed: 06/27/	2022 13:41		
Source: CF06148-01					C!l	6		0/ DEC		222	
Analyte	Result	Flag	POL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Nitrate/Nitrite as N	0.88		0.10	mg/L	0.521	0.30	111	90-110	1	10	QM-0
Batch 2F28021 - NO PREP				_							
Blank (2F28021-BLK1)					Prepare	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:32		
										_	
Analyte	Result	Flag	PQL	Units	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Notes
Ammonia as N	0.045	U	0.10	mg/L		_					



Batch 2F28021 - NO PREP - Co	ontinued										
LCS (2F28021-BS1)					Prepar	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:34		
					Spike	Source		%REC		RPD	
<u>nalyte</u>	Result	Flag	POL	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
nmonia as N	0.97		0.10	mg/L	1.01		96	90-110			
Matrix Spike (2F28021-MS1)					Prepar	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:37		
Source: CF08096-01											
nalyte	Result	Flag	POL	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	No
nmonia as N	13		1.0	mg/L	3.93	9.2	106	90-110		<u></u>	
Matrix Spike (2F28021-MS2)					Prepar	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:46		
Source: CF08096-02											
					Spike	Source		%REC		RPD	
nalyte	Result	Flag	POL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
nmonia as N	25	DE	1.0	mg/L	3.93	22	80	90-110			QI
Matrix Spike Dup (2F28021-MSD	1)				Prepar	ed: 06/28/202	2 14:48 Anal	yzed: 06/29/	2022 11:39		
Source: CF08096-01					Spike	Source		%REC		RPD	
<u>nalyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
monia as N	13	D	1.0	mg/L	3.93	9.2	106	90-110	0.2	10	
Batch 2F29014 - Same											
Blank (2F29014-BLK1)					Prepar	ed: 06/29/202	2 10:26 Anal	vzed: 06/30/	2022 10:34		
,						, . , .		,,			
			DO 1		Spike	Source		%REC		RPD	
nalyte	Result	<u>Flaq</u>	<u>PQL</u>	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
tal Kjeldahl Nitrogen	0.26	U	0.48	mg/L	Duonou	ad. 06/20/202	2 10.26 Apol	vend. 06/20/	2022 10.26		
LCS (2F29014-BS1)					Prepar	ed: 06/29/202	2 10:26 Anai	yzea: 06/30/.	2022 10:36		
					Spike	Source		%REC		RPD	
nalyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
tal Kjeldahl Nitrogen	12		0.48	mg/L	12.0		101	90-110			
Matrix Spike (2F29014-MS1)					Prepar	ed: 06/29/202	2 10:26 Anal	yzed: 06/30/	2022 10:40		
Source: CF08896-01						_					
<u>nalyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	No
tal Kjeldahl Nitrogen	5.7		0.48	mg/L	4.80	0.52	108	90-110			
Matrix Spike (2F29014-MS2)					Prepar	ed: 06/29/202	2 10:26 Anal	yzed: 06/30/	2022 10:45		
Source: CF08899-01											
					Spike	Source		%REC		RPD	
<u>nalyte</u>	Result	<u>Flag</u>	POL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
tal Kjeldahl Nitrogen	6.4		0.48	mg/L	4.80	2.1	88	90-110	2022 12 ::		Q۱
Matrix Spike Dup (2F29014-MSD	11)				Prepar	ed: 06/29/202	2 10:26 Anal	yzed: 06/30/	2022 10:41		
Source: CF08896-01					Spike	Source		%REC		RPD	
					SDIKE	Source		YOKEL		KPU	
nalyte	Result	Flag	PQL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No



Batch 2F29016 - Same - Con	tinued										
Blank (2F29016-BLK1)					Prepare	ed: 06/29/202	2 10:33 Anal	yzed: 06/30/	2022 12:15		
ınalyte	<u>Result</u>	Flag	POL	<u>Units</u>	Spike	Source	0/ DEC	%REC	DDD	RPD	NI-
nosphorus	0.025	U	0.10	mg/L	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
LCS (2F29016-BS1)	0.023		0.10	9/ _	Prepare	ed: 06/29/202	2 10:33 Anal	yzed: 06/30/	2022 12:17		
					Spike	Source		%REC		RPD	
<u>nalyte</u>	Result	<u>Flaq</u>	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
nosphorus	1.6		0.10	mg/L	1.60		101	80-120			
Matrix Spike (2F29016-MS1)					Prepare	ed: 06/29/202	2 10:33 Anal	yzed: 06/30/	2022 12:20		
Source: CF08896-01					Spike	Source		%REC		RPD	
nalyte	Result	Flag	PQL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	No
nosphorus	2.3		0.10	mg/L	0.640	1.6	115	80-120			
Matrix Spike Dup (2F29016-MS	D1)				Prepare	ed: 06/29/202	2 10:33 Anal	yzed: 06/30/	2022 12:21		
Source: CF08896-01					Spike	Source		%REC		RPD	
<u> Analyte</u>	<u>Result</u>	<u>Flag</u>	<u>PQL</u>	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>No</u>
nosphorus	2.2		0.10	mg/L	0.640	1.6	105	80-120	3	25	
Blank (2F27024-BLK1)						ed: 06/22/202	2 16:43 Anal	,	2022 11:24	RPD	
nalyte	Result	Flag	POL	Units MPN/100 ml	Prepare Spike Level	ed: 06/22/202 Source <u>Result</u>	2 16:43 Anal	yzed: 06/23/ %REC <u>Limits</u>	2022 11:24 RPD	RPD <u>Limit</u>	No
n alvte Diform, Fecal	Result	Flag U	POL 1.0	Units MPN/100 mL	Spike Level	Source <u>Result</u>	%REC	%REC <u>Limits</u>	RPD		No
Analyte					Spike Level	Source	%REC	%REC <u>Limits</u>	RPD		<u>No</u>
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02	1.0	U	1.0	MPN/100 mL	Spike Level Prepare	Source Result ed: 06/22/202	%REC 2 14:32 Anal	%REC Limits yzed: 06/23/ %REC	RPD 2022 11:24	<u>Limit</u>	
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte	1.0	U <u>Flag</u>	1.0 POL	MPN/100 mL Units	Spike Level	Source Result ed: 06/22/202 Source Result	%REC	%REC <u>Limits</u> yzed: 06/23/	RPD	<u>Limit</u> RPD <u>Limit</u>	No No
Analyte Dilform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Dilform, Fecal	1.0 Result 1.0	U Flag U	1.0 POL 1.0	MPN/100 mL	Spike Level Prepare	Source Result ed: 06/22/202	%REC 2 14:32 Anal	%REC Limits yzed: 06/23/ %REC	RPD 2022 11:24	<u>Limit</u>	
Analyte Diliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Diliform, Fecal	1.0 Result 1.0	U Flag U	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare	Source Result ed: 06/22/202 Source Result	%REC 2 14:32 Anal	%REC Limits yzed: 06/23/ %REC	RPD 2022 11:24	<u>Limit</u> RPD <u>Limit</u>	
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal Jassical Chemistry Parameters (1.0 Result 1.0	U Flag U	1.0 POL 1.0	MPN/100 mL Units	Spike Level Prepare Spike Level	Source Result ed: 06/22/202 Source Result	%REC 2 14:32 Anal %REC	%REC Limits yzed: 06/23/ %REC Limits	RPD 2022 11:24 RPD	<u>Limit</u> RPD <u>Limit</u>	
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal Jassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1)	Result 1.0 (Dissolved) -	U Flag U Quality	POL 1.0	Units MPN/100 mL	Spike Level Prepare Spike Level Prepare	Source Result ed: 06/22/202 Source Result 1.0 U	%REC 2 14:32 Anal %REC	%REC Limits yzed: 06/23/ %REC Limits	RPD 2022 11:24 RPD 2022 08:59	RPD Limit 25	No
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal lassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1)	Result 1.0 (Dissolved) -	Flag U Quality	POL 1.0	Units MPN/100 mL Units Units	Spike Level Prepare Spike Level	Source Result ed: 06/22/2022 Source Result 1.0 U	%REC 2 14:32 Anal %REC	%REC Limits yzed: 06/23/ %REC Limits	RPD 2022 11:24 RPD	RPD Limit 25	
Analyte Doliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Doliform, Fecal Dassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) Analyte Dotal Organic Carbon	Result 1.0 (Dissolved) -	U Flag U Quality	POL 1.0	Units MPN/100 mL	Spike Level Prepare Spike Level Spike Level	Source Result ed: 06/22/2022 Source Result 1.0 U ed: 06/24/2022 Source Result	%REC 2 14:32 Anal %REC 2 07:26 Anal	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits	RPD 2022 11:24 RPD 2022 08:59	RPD Limit 25	No
Analyte Doliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Doliform, Fecal Dassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1)	Result 1.0 (Dissolved) -	Flag U Quality	POL 1.0	Units MPN/100 mL Units Units	Spike Level Prepare Spike Level Spike Level	Source Result ed: 06/22/202 Source Result 1.0 U	%REC 2 14:32 Anal %REC 2 07:26 Anal	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits	RPD 2022 11:24 RPD 2022 08:59	RPD Limit 25	No
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal Jassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) Analyte Otal Organic Carbon LCS (2F24004-BS1)	Result 1.0 (Dissolved) - Result 0.90	Flag U Quality Flag U	1.0 POL 1.0 Control POL 1.0	Units MPN/100 mL Units MPN/100 mL	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike	Source Result ed: 06/22/2022 Source Result 1.0 U Source Result 1.0 U Source Result Source Result	%REC 2 14:32 Anal %REC 2 07:26 Anal	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits	RPD 2022 11:24 RPD 2022 08:59 RPD 2022 09:36	RPD Limit 25	No
Analyte Dilform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Dilform, Fecal Dassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) Analyte Dial Organic Carbon LCS (2F24004-BS1)	Result 1.0 (Dissolved) - Result 0.90	Flag U Quality	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level	Source Result ed: 06/22/2022 Source Result 1.0 U Source Result ed: 06/24/2022	%REC 2 14:32 Anal %REC 2 07:26 Anal %REC 2 07:26 Anal	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits yzed: 06/24/ %REC Limits	RPD 2022 11:24 RPD 2022 08:59	RPD Limit 25	No
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal Lassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) Analyte Otal Organic Carbon LCS (2F24004-BS1)	Result 1.0 (Dissolved) - Result 0.90	Flag U Quality Flag U	1.0 POL 1.0 Control POL 1.0	Units MPN/100 mL Units MPN/100 mL	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result ed: 06/22/2022 Source Result 1.0 U Source Result 1.0 U Source Result Source Result	%REC 2 14:32 Anal %REC 2 07:26 Anal %REC 95	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits yzed: 06/24/ %REC Limits 85-115	RPD 2022 11:24 RPD 2022 08:59 RPD 2022 09:36 RPD	RPD Limit 25	No
nalvte Difform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 nalvte Difform, Fecal assical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) nalvte Dtal Organic Carbon LCS (2F24004-BS1)	Result 1.0 (Dissolved) - Result 0.90	Flag U Quality Flag U	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result ed: 06/22/2022 Source Result 1.0 U ed: 06/24/2022 Source Result ed: 06/24/2022 Source Result	%REC 2 14:32 Anal %REC 2 07:26 Anal %REC 95	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits yzed: 06/24/ %REC Limits 85-115	RPD 2022 11:24 RPD 2022 08:59 RPD 2022 09:36 RPD	RPD Limit 25	No.
Analyte Oliform, Fecal Duplicate (2F27024-DUP1) Source: CF08896-02 Analyte Oliform, Fecal Jassical Chemistry Parameters (Batch 2F24004 - NO PREP Blank (2F24004-BLK1) Analyte Otal Organic Carbon LCS (2F24004-BS1) Analyte Otal Organic Carbon Matrix Spike (2F24004-MS1)	Result 1.0 (Dissolved) - Result 0.90	Flag U Quality Flag U	POL 1.0 POL 1.0	Units MPN/100 mL Units MPN/100 mL Units mg/L	Spike Level Prepare Spike Level Prepare Spike Level Prepare Spike Level 50.0	Source Result ed: 06/22/2022 Source Result 1.0 U ed: 06/24/2022 Source Result ed: 06/24/2022 Source Result	%REC 2 14:32 Anal %REC 2 07:26 Anal %REC 95	%REC Limits yzed: 06/23/ %REC Limits yzed: 06/24/ %REC Limits yzed: 06/24/ %REC Limits 85-115	RPD 2022 11:24 RPD 2022 08:59 RPD 2022 09:36 RPD	RPD Limit 25	No



Classical Chemistry Parameter	rs (Dissolved) -	Quality	Control								
Batch 2F24004 - NO PREF	P - Continued										
Matrix Spike (2F24004-MS1) Continued				Prepar	ed: 06/24/202	2 07:26 Anal	yzed: 06/24/	2022 09:58		
Source: AF04657-03											
<u>Analyte</u>	Result	Flag	PQL	<u>Units</u>	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Note
Total Organic Carbon	53		1.0	mg/L	50.0	6.1	93	85-115			
Matrix Spike (2F24004-MS2)				Prepar	ed: 06/24/202	2 07:26 Anal	yzed: 06/24/	2022 10:48		
Source: AF04794-01											
Analyte	Result	Flag	<u>PQL</u>	Units	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Note
Fotal Organic Carbon	49	<u>i iuq</u>	1.0	mg/L	50.0	Result 1.1	95	85-115	RPD	LIIIIL	Hote
Matrix Spike Dup (2F24004-			1.0	9/ =		ed: 06/24/202			2022 10:23		
Source: AF04657-03	•				•			, ,			
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	POL	Units	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Note
Total Organic Carbon	47		1.0	mg/L	50.0	6.1	81	85-115	12	15	QM-0
Matrix Spike Dup (2F24004-	-MSD2)				Prepar	ed: 06/24/202	2 07:26 Anal	yzed: 06/24/	2022 11:12		
Source: AF04794-01					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Level	Result	%REC	<u>Limits</u>	RPD	<u>Limit</u>	<u>Note</u>
Total Organic Carbon	49		1.0	mg/L	50.0	1.1	95	85-115	0.3	15	
Batch 2F27008 - NO PREF	,										
Blank (2F27008-BLK1)					Prepar	ed: 06/27/202	2 08:10 Anal	yzed: 06/27/	2022 08:55		
<u>Analyte</u>	Result	Flag	<u>PQL</u>	Units	Spike	Source	0/ DEC	%REC	DDD	RPD	Nata
Total Organic Carbon	0.90	<u>riay</u> U	1.0	mg/L	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
LCS (2F27008-BS1)	0.50		1.0	mg/ L	Prepar	ed: 06/27/202	2 08:10 Anal	vzed: 06/27/	2022 09:32		
100 (2: 27 000 202)					Пори	ca. 00/2//202	_ 00.10 /	,200. 00,27,			
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Note:
Total Organic Carbon	46		1.0	mg/L	50.0		93	85-115			
Matrix Spike (2F27008-MS1)				Prepar	ed: 06/27/202	2 08:10 Anal	yzed: 06/27/	2022 09:56		
Source: AF04829-02					Cuiles	S		%REC		RPD	
Analyte	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source <u>Result</u>	%REC	MREC <u>Limits</u>	RPD	Limit	Note
Total Organic Carbon	52		1.0	mg/L	50.0	6.3	91	85-115			
Matrix Spike (2F27008-MS2)				Prepar	ed: 06/27/202	2 08:10 Anal	yzed: 06/27/	2022 10:45		
Source: AF04437-04											
<u>Analyte</u>	Result	Flag	<u>PQL</u>	<u>Units</u>	Spike Level	Source	%REC	%REC <u>Limits</u>	RPD	RPD <u>Limit</u>	Note
Total Organic Carbon	<u>Kesuit</u> 52	<u>. 144</u>	1.0	mg/L	50.0	<u>Result</u> 5.9	93	85-115	KFD	<u>=11111L</u>	11016
Matrix Spike Dup (2F27008-				31 -		ed: 06/27/202			2022 10:21		
Source: AF04829-02	•				-1-5-	, , ,		,,			
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	PQL	Units	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Total Organic Carbon	48		1.0	mg/L	50.0	6.3	84	85-115	7	15	QM-0



Classical Chemistry Parameters (Dissolved) - Quality Control

Batch 2F27008 - NO PREP - Continued

 Matrix Spike Dup (2F27008-MSD2)
 Prepared: 06/27/2022 08:10 Analyzed: 06/27/2022 11:10

Source: AF04437-04

					Spike	Source		%REC		RPD	
<u>Analyte</u>	Result	Flag	PQL	<u>Units</u>	Level	<u>Result</u>	%REC	<u>Limits</u>	RPD	<u>Limit</u>	Notes
Total Organic Carbon	52		1.0	ma/L	50.0	5.9	92	85-115	1	15	



FLAGS/NOTES AND DEFINITIONS

- **B** The analyte was detected in the associated method blank.
- **D** The sample was analyzed at dilution.
- The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- **U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- **E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- **POL** POL: Practical Quantitation Limit. The POL presented is the laboratory MRL.
- **N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- **P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC] Calculated analyte MDL/MRL reported to the highest reporting limit of the component analyses.
- **QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.



CHAIN-OF-CUSTODY RECORD ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 111

Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210

Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515 102-A Woodwinds Industrial Ct.

www.encolabs.com

of

Page 1

CIROLOGINAN							7						Times
Address (1) (F) Hall Planza		Project Name/Desc	288		,	7	NY.	1001'S		1			Note: Rush requests subject to acceptance by the facility
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Preservation: I-Ice H-HCI N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments) Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Hel Not G. 8475(0)150

Sample Preservation Verification

ENCO Cary



Work Order:

CF09452

City of Durham (CI020)

Logged In:

Client:

22-Jun-22 15:45

Preservation Check Performed By:

Project:

Sima Ave Ambient

Project #:

[none]

Logged By:

Rachel Ann Yonish

Date/Time: 022

CF09452-01

Cont	Туре	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
В	250mLP+H2SO4	<2	O/N/NA	Y / 🛈 / NA		

Reagent Name	

Reage	ent Name	¥	ID	
3				
4				

	Reagent Name	ID
5		10
6		

pH Strip ID:

PH Strips C2A0640

22WQ133 NOV - Brenntag SE July 2022

Final Audit Report 2022-07-13

Created: 2022-07-13

By: James Azarelo (James.Azarelo@DurhamNC.gov)

Status: Signed

Transaction ID: CBJCHBCAABAAwsxdGeHDWitp2895iBIFw6GdAK-qqyGL

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